AntMiner D3
Installation Guide

Document Version 0.1
Aug 2017

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1. Overview

The AntMiner D3 is Bitmain’s newest version in the AntMiner D3 series. It boasts a state-of-the-art BM1760 custom-made chip using 28nm technology. All AntMiners D3 are tested and configured prior to shipping to ensure easy set up.

Power supply unit is not included. Please provide your own ATX power supply.
1.1 AntMiner D3 Components

The AntMiner D3 main components and controller front panel are shown in the following figure:
1.2 Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hash Rate</td>
<td>17 GH/s ±5%</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>11.60 ~ 13.00V</td>
</tr>
<tr>
<td>Frequency</td>
<td>487M</td>
</tr>
<tr>
<td>Estimated wall outlet power consumption (with APW3, 93% efficiency, 25°C ambient temperature)</td>
<td>970W + 7%</td>
</tr>
<tr>
<td>Estimated wall outlet power efficiency (with APW3, 93% efficiency, 25°C ambient temperature)</td>
<td>57mJ/MH + 7%</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>320mm<em>130mm</em>190mm</td>
</tr>
<tr>
<td>Net weight without packaging</td>
<td>4.2kg</td>
</tr>
<tr>
<td>Operating ambient temperature</td>
<td>0 ~ 40°C</td>
</tr>
</tbody>
</table>

The miner does not contain a DC/DC converter; therefore, higher input voltage will cause higher Mining efficiency.
2. Connecting the Power Supply

Ten PCI-e connectors are located at the top of the AntMiner D3 for connecting the PSU as follows:

- Nine PCI-e connectors for the hash boards. Each hash board has a set of three PCI-e connectors.
- One PCI-e connector located on the controller.

Each hashboard must be powered by the same PSU on both connectors to prevent possible damage and instability.

To connect the power supply:

1. Connect PSU power cable connectors to each of the nine PCI-e connectors on the top of the AntMiner D3, ensuring that each hash board is powered by the same PSU.

2. Connect a PSU power cable connector to the AntMiner D3 PCI-e connector on the controller.

3. Connect the network cable to the ETH port. (WiFi is unavailable for AntMiners)

4. To power up your AntMiner D3, connect the PSUs to the power wall outlet.

   If you are using more than one PSU, power up the PSU connected to the controller AFTER you have powered up the other PSU(s).
2. Connecting the Power Supply

Figure 2-1. PCI-E Connectors - Correct Connection

Figure 2-2. PCI-E Connectors - Incorrect Connection
3. Setting Up the Miner

To set up the miner:

1. Go to the following site:
   https://shop.bitmain.com/support.htm?pid=00720160906053730999PVD2K0vz0693
2. Download the file: IPReporter.zip
3. Extract the file.
4. Right-click IPReporter.exe and run it as Administrator.
5. Select one of the following options:
   - Shelf, Step, Position – suitable for farm miners to mark the location of the miners.
   - Default – suitable for home miners.
6. Click Start.

The default DHCP network protocol distributes IP addresses automatically.
3. Setting Up the Miner

7. On the controller board, click the IP Report button. Hold it down until it beeps (about 5 seconds).

![Controller Board Diagram]

The IP address will be displayed in a window on your computer screen.

![IP Reporter Window]

8. In your web browser, enter the IP address provided.

9. Proceed to login using root for both the username and password.

10. In the Network section, you can assign a Static IP address (optional).

11. Click Save & Apply.
4. Configuring the Miner

4.1 Setting Up the Pool

To configure the miner:

1. In Miner Configuration, click **General Settings**.
2. Set the options according to the following table:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pool URL</td>
<td>Enter the URL of your desired pool.</td>
</tr>
<tr>
<td>Worker</td>
<td>Your worker ID on the selected pool.</td>
</tr>
<tr>
<td>Password</td>
<td>The password for your selected worker.</td>
</tr>
</tbody>
</table>

*The AntMiner D3 can be set up with three mining pools, with decreasing priority from the first pool (pool 1) to the third pool (pool 3). The pools with low priority will only be used if all higher priority pools are offline.*

3. Click **Save & Apply**.
4.2 Modifying the Frequency

You are able to modify the frequency value through ‘Miner Configuration —> Advanced Settings’.

Bitmain recommend a default frequency of AntMiner D3, and Overlocking the miner will void the warranty immediately.
5. Monitoring Your Miner

To check the operating status of your miner:

1. Click Miner Status.
2. Under AntMiner, monitor your miner according to the descriptions in the following table:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASIC#</td>
<td>Number of chips detected in the chain.</td>
</tr>
<tr>
<td>Frequency</td>
<td>ASIC frequency setting.</td>
</tr>
<tr>
<td>GH/S(RT)</td>
<td>Hash rate of each hash board (GH/s)</td>
</tr>
<tr>
<td>Temp(PCB)</td>
<td>Temperature of each hash board (°C). (Applied only to miner with fixed frequency)</td>
</tr>
<tr>
<td>Temp(Chip)</td>
<td>Temperature of the chips on each hash board (°C).</td>
</tr>
<tr>
<td>ASIC status</td>
<td>One of the following statuses will appear:</td>
</tr>
<tr>
<td></td>
<td>● O  -  indicates OK</td>
</tr>
<tr>
<td></td>
<td>● X  -  indicates error</td>
</tr>
<tr>
<td></td>
<td>● - -  indicates dead</td>
</tr>
</tbody>
</table>

Note: The D3 miner will stop running when the Temp(PCB) exceeds 85°C, there will be an error message “Fatal Error: Temperature is too high!” shown in the bottom of kernel log page.
6. Administering Your Miner

6.1 Checking Your Firmware Version

To check your firmware version:

1. In System, click the Overview tab.

2. File System Version displays the date of the firmware your miner uses. (Screenshot below for S9 AntMiner just for your reference to display the message, the message shows on your computer shall prevail.

![Screenshot of S9 AntMiner](image)

6.2 Upgrading Your System

Make sure that the AntMiner D3 remains powered during the upgrade process. If power fails before the upgrade is completed, you will need to return it to Bitmain for repair.

To upgrade the miner’s firmware:

1. In System, click Upgrade.

2. For Keep Settings:
   - Select the check box to keep your current settings (default).
   - Clear the check box to reset the miner to default settings.

3. Click the (Browse) button and navigate to the upgrade file. Select the upgrade file, then click Flash image. A message appears notifying you if the AntMiner D3 firmware can be upgraded and if yes, will then
proceed to flash the image. (Note: Please do not extract the update file and keep the power on during updating firmware or otherwise the AntMiner need to be returned to the factory to repair. And around two minutes will be needed to complete updating.)

3. When the upgrade is completed successfully, the following message will appear: (Screenshot below of S9 AntMiner just for your reference to show the message, the message shows on your computer shall prevail.).

6.3 Modifying Your Password
To change your login password:
1. In System, click the Administration tab.
2. Set your new password, then click Save & Apply.

6.4 Restoring Initial Settings
To restore your initial settings, two methods below for your reference.
1. Turn on the miner and let it run for 5 minutes.
2. On the controller front panel, press and hold the **Reset** button for 10 seconds.

Resetting your miner will reboot it and restore its default settings. The red LED will automatically flash once every 15 seconds if the reset is operated successfully.